

NOT MEASUREMENT  
SENSITIVE

MIL-M-63033A(TM)  
3 JANUARY 1990

---

SUPERSEDING  
MIL-M-63033(TM)  
15 OCTOBER 1973

**MILITARY SPECIFICATION  
MANUALS, TECHNICAL:  
DEMILITARIZATION OF SURPLUS  
MILITARY ITEMS, PREPARATION OF**

**This specification is approved for use by the Department of  
the Army, and is available for use by all Departments and  
Agencies of the Department of Defense.**

1. SCOPE

1.1 Scope. This specification contains the detailed requirements for the preparation of technical manuals for demilitarization of surplus military items.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be used in improving this document should be addressed to: USAMC Materiel Readiness Support Activity, ATTN: AMXMD-MP, Lexington, KY 40511-5101 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC A4862

AREA TMSS

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

## MIL-M-63033A(TM)

## 2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standards. The following specifications and standards form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issues of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

## SPECIFICATIONS

## MILITARY

MIL-M-38784	Manuals, Technical: General Style and Format Requirements
MIL-M-85337	Manuals, Technical: Quality Assurance Program, Requirements for

## STANDARDS

## MILITARY

MIL-STD-12	Abbreviations for Use on Drawings, Specifications, Standards, and in Technical Documents
MIL-STD-129	Marking for Shipment and Storage

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.1.2 Other Government documents, drawings, and publications. The following other Governmental documents, drawings, and publications form a part of this specification to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

DOD	5220.22-M	Industrial Security Manual for Safeguarding Classified Information
-----	-----------	--

(Copies of specifications, standards, handbooks, drawings, publications, and other Government documents required by the contractor in connection with specific acquisition functions should be obtained from the contracting activity.)

## MIL-M-63033A(TM)

2.2 Non-government standards and other publications. The following document(s) form a part of this specification to the extent specified herein. Unless otherwise specified, the issue of the documents which are DOD adopted shall be those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS shall be the issue of the non-government document(s) which is current on the date of the solicitation.

American Society for Testing and Materials (ASTM)

ASTM D3951	Standard Practice for Commercial Packaging
------------	--

(DOD activities can obtain copies of ASTM D3951 from Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094. Other Government activities, contractors, and other private concerns must procure copies from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

2.3 Order of precedence. In the event of a conflict between the text of this specification and references cited herein, the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

### 3. REQUIREMENT

#### 3.1 General.

3.1.1 Style and format. Unless otherwise specified herein, the general style and format of a technical manual (TM) for demilitarization of surplus military items shall be prepared in accordance with MIL-M-38784.

3.1.2 National stock numbers (NSN) and part numbers. National stock numbers shall not be used in the procedures or the narrative portion of the TM. Unless essential for identification, manufacturer's part numbers shall not be used in procedures or the narrative portion of the TM.

3.1.3 Level of coverage. The information provided in the TM for demilitarization of surplus military items shall be directed to the least experienced personnel expected to use it. The reading grade level shall be the level specified by the contracting activity and evaluated in accordance with MIL-M-38784.

3.1.3.1 Language. The text shall be concise, accurate, and simple. The most simple words that will convey the intended message shall be used.

## MIL-M-63033A(TM)

3.1.3.2 Abbreviations and acronyms. Abbreviations used throughout the manual shall be in accordance with MIL-STD-12. Use of acronyms shall be consistent throughout the TM but shall be held to a minimum. The first use of abbreviations and acronyms shall be spelled out completely with the abbreviation or acronym in parentheses immediately after the word(s).

3.1.3.3 Equipment names and nomenclature. Only approved names and approved nomenclature shall be used. Terms, names, and nomenclature shall be used consistently throughout the TM.

3.1.4 Illustrations. Unless otherwise specified by the contracting activity, only line drawings shall be used. Illustrations shall be integrated with the text and shall be used when text alone cannot adequately communicate the message. Illustrations shall be black and shades of blacks (one color).

3.1.5 Referencing. Reference to other documents and information within the TM shall be held to a minimum. Reference shall not be made to other documents unless they are normally available to the user. If reference to other documents is necessary, reference shall include the document name and publication number only. Reference made within the TM shall include the necessary location data only. For example, if the entire chapter is applicable, only the chapter number shall be referenced; if the information needed is found in one or more paragraph(s), reference to the paragraph number(s) shall be made.

3.2 Content. The technical manual for demilitarization of surplus military items shall consist of the following:

- a. Front matter.
- b. Chapter 1, Introduction.
- c. Chapter 2, Methods of demilitarization.
- d. Chapter 3, Detailed instructions for demilitarization.
- e. Appendix A, References.
- f. Index

3.2.1 Front matter. Unless otherwise specified by the contracting activity, the front matter shall consist of the following:

## MIL-M-63033A(TM)

3.2.1.1 Cover. Cover shall be done in accordance with MIL-M-38784. For example, see figure 1.

a. Title. The title shall be "Demilitarization Procedures for (insert name of item to be demilitarized)."

b. Warning summary. A warning summary shall appear on the inside front cover to provide the user of the manual with important warnings that appear throughout the manual. If the front cover data extends to the inside cover, the summary shall appear on the page immediately after the cover. This summary shall include each general type of warning and symbol used within the manual. The summary shall not be a list of specific warnings that pertain to particular procedural steps but shall include general subject data such as radiation, chemicals, voltage, gas pressure, and laser light. See figure 2. If the entire warning summary cannot be placed on the inside front cover, the warning summary shall continue on the page immediately following the inside front cover.

3.2.1.2 Title block/reporting errors and recommending improvements. The title block shall include all applicable data as shown at the top of figure 3. A "reporting errors and recommending improvements" (boxed-in) statement shall appear below the title block as shown on figure 3. The address of the responsible proponent shall be inserted in this box.

a. Unclassified/standard TM. Except in classified TMs, pocket size TMs, and TMs with less than eight pages, the following statement shall be used:

**"REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**  
 You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to: (address of proponent). A reply will be furnished to you."

One sample copy of DA Form 2028-2, figure 4, and three blank DA Form 2028-2 with the publication number, date, and title shall be included at the back of every TM. The three blank copies shall be preprinted with proponent's address printed on the reverse side.

b. Pocket size TMs and TMs with less than eight pages. For pocket size TMs and TMs with less than eight pages, the following statement shall be used:

## MIL-M-63033A(TM)

**"REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), directly to: (address of proponent). A reply will be furnished to you."

c. Classified TMs. For classified TMs, the following statement shall be used:

**"REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this manual. If you find any mistakes or if you know of a way to improve this manual, write or tell us about it. Address your correspondence to (insert address of proponent). When dealing with classified information make sure that your correspondence is properly marked and is handled in accordance with AR 380-5."

3.2.1.3 Table of contents. When space permits, the table of contents shall begin below the reporting errors and recommending improvements statement. If space does not permit, it shall begin on the next page. The table of contents shall be formatted and contain data as shown on figure 3, as applicable to the specific manual.

3.2.2 Chapter 1, introduction. This chapter shall contain the following paragraphs:

3.2.2.1 Scope. The scope paragraph shall contain the following statement:

"This manual provides additional technical instructions covering the methods and degree of demilitarization of surplus military items as required by DOD 4160.21-M-1. DOD 4160.21-M-1, which contains the basic information on demilitarization, shall be used in conjunction with this manual. Where this manual conflicts with DOD 4160.21-M-1, the latter takes precedence."

3.2.2.2 Authorization. This paragraph shall contain the following statement:

"Demilitarization of surplus military materiel shall be limited to that which the National Inventory Control Points (NICP) have identified as requiring demilitarization. Demilitarization of those items which are not normally physically accepted by a Defense Reutilization and Marketing Officer (DRMO) will be accomplished by the activity having physical custody of the property upon completion of all required utilization and donation screening. Such action will be coordinated with a DRMO. Where appropriate, demilitarization of this property may be accomplished as a condition of sale, provided that there are effective controls and surveillance to assure proper demilitarization.

## MIL-M-63033A(TM)

Where the DRMO is the custodian of the property and is unable to perform required demilitarization, he may require demilitarization as a condition of sale, with proper inspection and surveillance, or may obtain assistance from activity turning in the property."

3.2.2.3 Certification. This paragraph shall contain the following statement:

"A certificate reading substantially as quoted below and signed by two qualified Government representatives will be executed and placed in the applicable contract or property disposal file for all items demilitarized.

'I certify that (indicate items) were demilitarized in accordance with (cite specific instructions which were complied with; for example, Defense Demilitarization Manual, DOD 4160.21-M-1, TM 750-262-4.1).'

"

3.2.2.4 Reporting demilitarization. This paragraph shall contain any necessary reporting requirements concerning the accomplishment of demilitarization. If none, this paragraph shall be omitted.

3.2.2.5 Special information. This paragraph shall be used to present any general information not covered elsewhere within the specification. If no such information is required, this paragraph shall be omitted.

3.2.3 Chapter 2, methods of demilitarization. This chapter shall contain a brief description of the methods used to demilitarize surplus equipment, parts, and supplies. It shall include, for each method, a list of equipment required, warning and safety instructions, and the procedures to be followed. Only those methods which are actually used to demilitarize the equipment covered in the manual shall be included. Examples of these methods are crushing, cutting, burning, welding, smelting, shearing, torching, chemical neutralization, or a combination thereof.

3.2.4 Chapter 3, detailed instructions for demilitarization. This chapter shall include detailed information on the demilitarization of individual or types of items. This information shall include a description of the operation, identification of the methods to be used and their points of application, inspection, warnings, and safety precautions. The methods selected shall be the most practical and economical way of destroying the military offensive or defensive advantages inherent in the materiel being demilitarized. Illustrations may be used if necessary for clarity. For an example of a demilitarization procedure, see figure 5.

## MIL-M-63033A(TM)

3.2.5 Appendix A, references. This appendix shall list all publications referenced in the manual and required by the user to demilitarize the materiel covered in the manual. The appendix shall have an introduction or scope paragraph to provide a brief statement(s) concerning its use and content. The publications shall be listed in groups by publication types. If the publication is non-Government, the source shall be provided. The complete name of each publication and the publication number shall be used. For example, see figure 6. When a list of applicable publications (LOAP) is published, this appendix shall reference the LOAP.

3.2.6 Alphabetical index. This manual shall include an alphabetical index prepared in accordance with MIL-M-38784.

#### 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items must meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of assuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to acceptance of defective material.

4.2 Quality assurance provisions. The contractor shall be responsible for quality assurance in the preparation of the TM in accordance with MIL-M-85337 to the extent specified by the contracting activity. See 6.3.

#### 5. PACKAGING

5.1 Packaging and marking. Unless otherwise specified by the contracting activity, the packaging and packing of TMs and associated TM products shall conform to ASTM D3951 (for unclassified) and AR 380-5 (for classified).

## MIL-M-63033A(TM)

5.2 Marking. Packages shall be marked in accordance with MIL-STD-129 and ASTM D3951, as applicable, and shall include the appropriate technical manual number and publication date.

5.3 Classified material. All classified material shall be safeguarded, packaged, and marked in accordance with DOD 5220.22-M.

## 6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. The manuals prepared in accordance with this specification provide Army and DSA (as integrated DOD Disposal Manager) personnel with procedures for and information about demilitarization of surplus military items.

6.2 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of this specification.
- b. Title and publication number of the manual to be prepared.
- c. Description of target audience and reading grade level.
- d. Identification of information to be furnished by the Government.
- e. Quality assurance provisions to be invoked (including deliverable data requirements).

6.3 Data requirements. The following data item descriptions (DIDs) must be listed, as applicable, on Contract Data Requirements Lists (DD Form 1423) when this specification is applied on a contract, in order to obtain the data, except where DOD FAR Supplement 27.475-1 exempts the requirements for a DD Form 1423.

<u>Specification</u>	<u>DID Number</u>	<u>DID Title</u>
MIL-M-85337A (NAVY) Paragraph		
3.1.1	DI-M-2194	Technical Manual Quality Assurance Program Plan
3.3.3.1	DI-M-2195	Validation Plan
3.3.3.6	DI-M-2196	Validation Certification

## MIL-M-63033A(TM)

<u>Specification</u>	<u>DID Number</u>	<u>DID Title</u>
MIL-M-85337A (NAVY) Paragraph		
3.3.5	DI-M-2197	Technical Manual Evaluation Records
3.3.4.1	DI-M-2198	Verification Plan
3.3.4.2	DI-M-2199	Verification Planning Data Card
3.3.4.3	DI-M-2200	Verification Sequence Control Chart
3.3.4.5	DI-M-2201	Technical Manual Verification Evaluation Certification

The listed DIDs were those cleared as of the date of this specification. The current issue of DOD 5010.12-L, Acquisition Management Systems and Data Requirements Control List (AMSDL) must be researched to ensure that only current, cleared DIDs are cited on DA Form 1423.

6.4 Technical manuals acquisition. This specification must be listed on the Contract Data Requirements Lists (DD Form 1423) in order to acquire the technical manuals described by the specification, except where DOD FAR Supplement 27.475-1 exempts the requirement for DD Form 1423.

6.5 Definitions. The definition of terms below apply as they are used in this specification.

6.5.1 Contracting activity. An element of an agency designated by the agency head and delegated broad authority regarding acquisition functions.

6.5.2 Warning. A statement or other notification about a demilitarization procedure, practice, condition that, if not strictly observed, could result in injury or death of personnel doing the demilitarization.

6.6 Subject term (key word) listing.

Extra items  
How to destroy

6.7 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

MIL-M-63033A(TM)

**TM 43-0003-34**

---

**TECHNICAL MANUAL**

**DEMILITARIZATION PROCEDURES**

**FOR**

**MULTIPLE LAUNCH  
ROCKET SYSTEM  
(MLRS)**

DISTRIBUTION AUTHORIZED TO DEPARTMENT OF DEFENSE AND DOD CONTRACTORS ONLY TO PROTECT CRITICAL TECHNICAL DATA ON SYSTEMS OR HARDWARE. THIS DETERMINATION WAS MADE OCT 1986. OTHER REQUESTS SHALL BE REFERRED TO PROJECT MANAGER, MLRS PROJECT OFFICE, ATTN: AMCPM-ML-LO, REDSTONE ARSENAL, AL 36889-6700.

**WARNING**  
THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C. SEC. 2751 ET SEQ.) OR EXECUTIVE ORDER 12476. VIOLATORS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

---

**HEADQUARTERS, DEPARTMENT OF THE ARMY  
NOVEMBER 1987**

FIGURE 1. Example of a front cover.

MIL-M-63033A(TM)

## WARNING DANGEROUS VACUUM TUBE

is used in this equipment.

## DEATH

or severe injury may result if personnel fail to observe safety precautions. The cathode-ray tube (CRT) is highly vacuumized and may implode when broken.

Beware of flying glass particles upon implosion. Avoid breathing the gases released when a tube is broken. When handling CRTs or equipment containing CRTs, wear protective gloves, apron, and face mask to minimize or avoid injury.

## WARNING EXPLOSIVES

HAWK Air Defense Guided Missiles contain explosives. All applicable safety regulations will be strictly enforced. Explosive components containing electrical wiring must be protected at all times from any stray voltages or induced electrical storms.

Handling operations should not be performed during electrical storms.

Explosives are contained in the following units:

Warhead, GM, HE, M155  
Safety and Arming Device M100  
Rocket Motor M112  
Rocket Motor Igniter

FIGURE 2. Example of warning summary.

MIL-M-63033A(TM)

TM 43-0003-34

TECHNICAL MANUAL )  
 )  
 No. 43-0003-34 )

HEADQUARTERS  
 DEPARTMENT OF THE ARMY  
 Washington, D.C., 10 November 1987

**DEMILITARIZATION PROCEDURES  
 FOR  
 MULTIPLE LAUNCH ROCKET SYSTEM**

**REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this publication. If you find any mistakes, or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), direct to: Commander, U.S. Army Missile Command, ATTN: AMSMI-LC-ME-PM, Redstone Arsenal, AL 35898-5238. A reply will be furnished to you.

DISTRIBUTION AUTHORIZED TO DEPARTMENT OF DEFENSE AND DOD CONTRACTORS ONLY TO PROTECT CRITICAL TECHNICAL DATA ON SYSTEMS OR HARDWARE. THIS DETERMINATION WAS MADE OCT 1986. OTHER REQUESTS SHALL BE REFERRED TO PROJECT MANAGER, MLRS PROJECT OFFICE, ATTN: AMCPM-ML-LO, REDSTONE ARSENAL, AL 35898-5700.

**WARNING**  
 THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C. SEC. 2751 ET SEQ.) OR EXECUTIVE ORDER 12065. VIOLATORS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES.

DESTRUCTION NOTICE - DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

**TABLE OF CONTENTS**

	<i>Paragraph</i>	<i>Page</i>
<b>CHAPTER 1. INTRODUCTION</b>		
Scope .....	1-1	1-1
Authorization .....	1-2	1-1
Certification .....	1-3	1-1
Reporting demilitarization .....	1-4	1-1
Items to be demilitarized .....	1-5	1-1
Disposition of scrap/salvaged material .....	1-6	1-4
Environmental regulation compliance .....	1-7	1-4
<b>CHAPTER 2. METHODS OF DEMILITARIZATION</b>		
General .....	2-1	2-1
Cutting .....	2-2	2-1
Detonating .....	2-3	2-1
Mutilating .....	2-4	2-1
Smashing .....	2-5	2-1

1

FIGURE 3. Example of a title block, reporting of errors and recommending improvements statement, and table of contents (Sheet 1 of 2).

## MIL-M-63033A (TM)

TM 43-0003-34

## TABLE OF CONTENTS (Continued)

	Paragraph	Page
<b>CHAPTER 3. DETAILED INSTRUCTIONS FOR DEMILITARIZATION</b>		
Fire Control Unit (FCU) Assembly .....	3-1	3-1
Boom Controller (BC) Assembly .....	3-2	3-1
Short/No Voltage Tester (SNVT) Assembly .....	3-3	3-1
Stabilization Reference Package (SRP) Assembly .....	3-4	3-1
Power Distribution Box (PDB) Assembly .....	3-5	3-1
Elevation Monitoring Transducer Assembly .....	3-6	3-1
Launch Pod/Container (LP/C) Hold Down and Latch Assembly .....	3-7	3-1
Electrical Boom Control Box Assembly .....	3-8	3-1
Boom Extension Motor and Reduction Gear Box .....	3-9	3-2
Direct Current Motor and Brake Assembly .....	3-10	3-2
Rocket Pod Hoist .....	3-11	3-2
Launch Pod/Container (LP/C) Support Beam Assembly .....	3-12	3-2
Launcher Loader Module (LLM) Travel Lock System		
Electro Mechanical Actuator .....	3-13	3-2
Travel Lock System Hook Assembly .....	3-14	3-5
Heat Exchanger Assembly .....	3-15	3-5
Azimuth and Elevation Servomotor Assemblies .....	3-16	3-5
Hydraulic Power Supply Assembly .....	3-17	3-5
Azimuth Position Monitor Transducer Switch Assembly .....	3-18	3-5
Contactor Assembly .....	3-19	3-5
Hydraulic Swivel Assembly .....	3-20	3-7
Elevation Hydraulic Valve Module Assembly .....	3-21	3-7
Elevation Actuator Support Assembly .....	3-22	3-7
Ball Screw Actuator Assembly .....	3-23	3-7
Azimuth Drive Assembly .....	3-24	3-7
Elevation Propeller Shaft .....	3-25	3-7
Electronics Unit (EU) Assembly .....	3-26	3-9
Electronics Box (EB) Assembly .....	3-27	3-9
Travel Lock System Roller Assembly .....	3-28	3-9
Travel Lock System Roller Assembly .....	3-29	3-9
Travel Lock System Lateral Centering Socket Assembly .....	3-30	3-9
Flex Shaft Adapter Assembly .....	3-31	3-9
Communications Processor .....	3-32	3-10
Hoisting Sling Assembly .....	3-33	3-10
Electrical Cable Assemblies .....	3-34	3-10
Fire Control Panel (FCP) Assembly .....	3-35	3-10
Rocket Pod/Container (RP/C) .....	3-36	3-10
<b>APPENDIX A. REFERENCES .....</b>		<b>A-1</b>

FIGURE 3. Example of a title block, reporting of errors and recommending improvements statement, and table of contents (Sheet 2 of 2).

MIL-M-63033A(TM)

**RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS**



**SOMETHING WRONG WITH THIS PUBLICATION?**

THEN... JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT. FOLD IT AND DROP IT IN THE MAIL!

**FROM:** (PRINT YOUR UNIT'S COMPLETE ADDRESS)  
 CDR, 1st Bn, 65th ADA  
 ATTN: SP4 John Doe  
 Key West, FL 33040

**DATE SENT**  
 14 January 1979

<b>PUBLICATION NUMBER</b> TM 9-1430-550-34-1	<b>PUBLICATION DATE</b> 7 Sep 72	<b>PUBLICATION TITLE</b> Unit of Radar Set AN/MPQ-50 Tested at the HFC
---	-------------------------------------	--

BE EXACT... PIN-POINT WHERE IT IS				IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
PAGE NO	PARA. GRAPH	FIGURE NO	TABLE NO	
9-19		9-5		"B" Ready Relay K11 is shown with two #9 contacts. That contact which is wired to pin 8 of relay K16 should be changed to contact #10.
21-2	step 1C		21-2	Reads: Multimeter B indicates 600 K ohms to 9000 K ohms.  Change to read: Multimeter B indicates 600 K ohms minimum.  Reason: Circuit being checked could measure infinity. Multimeter can read above 9000 K ohms and still be correct.  <i>NOTE TO THE READER:</i>  Your comments will go directly to the writer responsible for this manual, and he will prepare the reply that is returned to you. To help him in his evaluation of your recommendations, please explain the reason for each of your recommendations, unless the reason is obvious.  All comments will be appreciated, and will be given immediate attention. Handwritten comments are acceptable.  For your convenience, blank "tear out" forms, preprinted, addressed, and ready to mail, are included in this manual.

SAMPLE

<b>PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER</b> SP4 John Doe, Autovon 222-222	<b>SIGN HERE</b>
--	------------------

**DA FORM 2028-2** 1 JUL 79

PREVIOUS EDITIONS ARE OBSOLETE.

P S --IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS

FIGURE 4. Example of a completed DA Form 2028-2.

### CHAPTER 3

#### DETAILED INSTRUCTIONS FOR DEMILITARIZATION

**3-1. Fire Control Unit Assembly - 13031125**

a. Remove circuit card assemblies listed in Table 1-1 and demilitarize them by smashing.

b. Report demilitarization in accordance with paragraph 1-4.

**3-2. Boom Controller Assembly - 13031127**

a. Demilitarize by mutilating.

b. Report demilitarization in accordance with paragraph 1-4.

**3-3. Short No Voltage Tester Assembly - 13030280**

a. Remove two circuit card assemblies and demilitarize by smashing.

b. Demilitarize remainder of short no voltage tester by mutilating.

c. Report demilitarization in accordance with paragraph 1-4.

**3-4. Stabilization Reference Package Assembly - 13030726**

a. Remove circuit card assemblies listed in Table 1-1 and demilitarize them by smashing.

b. Remove platform assembly and demilitarize it by mutilating.

c. Demilitarize remainder of stabilization reference package assembly by mutilating.

d. Report demilitarization in accordance with paragraph 1-4.

**3-5. Power Distribution Box Assembly - 13032020**

a. Demilitarize the power distribution box assembly by mutilating.

b. Report demilitarization in accordance with paragraph 1-4.

**3-6. Elevation Monitoring Transducer Assembly - 13029830**

a. Demilitarize the elevation monitoring transducer assembly by mutilating.

b. Report demilitarization in accordance with paragraph 1-4.

**3-7. Launch Pod/Container Hold Down and Latch Assembly - 13029733**

a. Demilitarize the launch pod/container hold down and latch assembly as follows:

(1) Cut the link and rod assemblies in half.

(2) Cut the latch assembly as illustrated in Figure 3-1.

b. Report demilitarization in accordance with paragraph 1-4.

**3-8. Electrical Boom Control Box Assembly - 13026570**

a. Demilitarize the boom control box assembly by removing and mutilating the radio frequency filter and the two magnetic contactors.

b. Report demilitarization in accordance with paragraph 1-4.

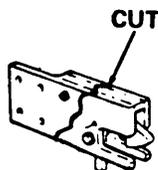


Figure 3-1. Latch assembly.

3-1

FIGURE 5. Example of detailed demilitarization information.

## MIL-M-63033A (TM)

TM 43-0003-25

**APPENDIX A**  
**REFERENCES**

**A-1. ADMINISTRATIVE PUBLICATIONS**

*a. Publication Index.* The following publication index should be consulted frequently for latest changes or revisions of references given in this appendix and for new publications relating to the material covered in this manual.

Consolidated Index of Army Publications and Blank Forms ..... DA PAM 25-30

*b. Army Regulations.*

Reporting of Transportation Discrepancies in Shipments ..... AR 55-38  
 Environmental Protection and Enhancement ..... AR 200-1  
 The Army Safety Program ..... AR 385-10  
 Accident Reporting and Records ..... AR 385-40  
 Fire Prevention and Protection ..... AR 420-90  
 Ammunition Peculiar Equipment (APE) ..... AR 700-20 and DARCOM  
 Suppl 1  
 Worldwide Ammunition Reporting System (WARS) ..... AR 700-22  
 Reporting of Item and Packaging Discrepancies ..... AR 735-11-2

*c. AMC/DARCOM Regulations.*

Industrial, Medical & Hygiene Considerations ..... AMCR 40-2  
 Hazard Analysis for Facilities, Equipment, and Process Developments ..... DARCOM-R 385-3  
 Safety Manual ..... AMC-R 385-100  
 Preparation of Standing Operating Procedures (SOPs)  
 for Ammunition Operations ..... AMC-R 700-107  
 Authorizing, Accomplishing, and Reporting Demilitarization of Class V  
 Materiel ..... AMC-R 755-8

**A-2. BLANK FORMS**

Transportation Discrepancy Report ..... SF 361  
 Report of Discrepancy (ROD) ..... SF 364  
 U.S. Army Accident Investigation Report ..... DA Form 285  
 Recommended Changes to Publications and Blank Forms ..... DA Form 2028  
 Ammunition Condition Report ..... DA Form 2415  
 Ammunition Transfer Record ..... DA Form 4508

**A-3. EQUIPMENT PUBLICATIONS***a. Technical Manuals.*

Ammunition, General ..... TM 9-1300-200  
 Ammunition, and Explosives Standards ..... TM 9-1300-206  
 Military Explosives ..... TM 9-1300-214  
 Demolition Materials ..... TM 9-1375-213-12  
 Operation and Maintenance Manual MQM-107A ..... TM 9-1410-421-14-1  
 Operation and Maintenance Manual MQM-107B/C ..... TM 9-1425-422-14-1  
 Operation and Maintenance Manual MQM-107D ..... DTM 9-1425-423-14-1  
 Packaging and Materials Handling: Preparation of Hazardous Materials for  
 Military Air Shipment ..... TM 38-250

A-1

FIGURE 6. Example of Appendix A, references (Sheet 1 of 2).

## MIL-M-63033A (TM)

**TM 43-0003-25****A-3. EQUIPMENT PUBLICATIONS (Continued)***b. Field Manuals.*

Explosives and Demolitions ..... FM 5-25

*c. Technical Bulletins.*

Ammunition: National Stock Numbers and Department of Defense Codes ..... TB 9-1300-256

Munitions: Suspended or Restricted ..... TB 9-1300-385

Occupational and Environmental Health: Hearing Conservation ..... TB MED 501

Occupational and Environmental Health Respiratory Protection Program ..... TB MED 502

**A-4. SUPPLY BULLETINS**

Ammunition Surveillance Procedures ..... SB 742-1

Propellant and Propelling Charges Ammunition Surveillance Procedures ..... SB 742-1300-94-2

Disposition of Used Ammunition Packing Material and  
Certain Specified Ammunition Components ..... SB 755-1**A-5. SPECIAL REQUIREMENTS**

Code of Federal Regulations (Bureau of Explosives Tariff 6000 Series) ..... Title 49

Defense Demilitarization Manual ..... DOD 4160.21-M-1

DOD Consolidated Ammunition Catalog Joint Hazard Classification System  
Resource Conservation and Recovery Act (PL 89-272, as amended by PL 91-512,  
PL 93-611, and PL 94-580).

The Army Maintenance Management System (TAMMS) ..... DA Pam 738-750

ARMS Packaging File (Army Master Data File)

Technical Instructions for the Safe Transport of Dangerous Goods by Air,  
International Civil Aviation OrganizationFIGURE 6. Example of Appendix A, references (Sheet 2 of 2).

## MIL-M-63033A(TM)

INDEX

Abbreviations	3.1.3.2
Acquisition of tech manuals	6.4
Acquisition requirements	6.2
Acronyms	3.1.3.2
Appendixes	3.2.5
Applicable documents	2.0
Authorization	3.2.2.2
Certification	3.2.2.3
Chapter 1, introduction	3.2.2
Chapter 2, Methods of demilitarization	3.2.3
Chapter 3, detailed instructions	3.2.4
Classified material	5.3
Content	3.2
Data requirements	6.3
Definitions	6.5
Equipment names	3.1.3.3
Format	3.1.1
Front cover	3.2.1.1
Front matter	3.2.1
Illustrations	3.1.4
Index	3.2.6
Intended use	6.1
Language	3.1.3.1
Level of coverage	3.1.3
Marking	5.2
NSNs	3.1.2
Nomenclature	3.1.3.3
Notes	6.0
Order of precedence	2.3
Packaging	5.0
Part numbers	3.1.2
Quality assurance	4.0
Reading grade level	3.1.3
References	3.2.5
Referencing	3.1.5
Reporting demilitarization	3.2.2.4
Reporting errors	3.2.1.2
Scope	3.2.2.1
Special information	3.2.2.5
Style	3.1.1
Subject key terms	6.6
Table of contents	3.2.1.3
Title	3.2.1.1 (a)
Title block	3.2.1.2
Warning summary	3.2.1.1 (b)

MIL-M-63033A(TM)

CUSTODIAN:

Army - TM

REVIEW ACTIVITIES:

Army - AT, AL, TS,  
CR, AV, MI

PREPARING ACTIVITY:

Army - TM

(PROJECT TMSS-A260)

**INSTRUCTIONS:** In a continuing effort to make our standardization documents better, the DoD provides this form for use in submitting comments and suggestions for improvements. All users of military standardization documents are invited to provide suggestions. This form may be detached, folded along the lines indicated, taped along the loose edge (*DO NOT STAPLE*), and mailed. In block 5, be as specific as possible about particular problem areas such as wording which required interpretation, was too rigid, restrictive, loose, ambiguous, or was incompatible, and give proposed wording changes which would alleviate the problems. Enter in block 6 any remarks not related to a specific paragraph of the document. If block 7 is filled out, an acknowledgement will be mailed to you within 30 days to let you know that your comments were received and are being considered.

**NOTE:** This form may not be used to request copies of documents, nor to request waivers, deviations, or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

(Fold along this line)

(Fold along this line)

DEPARTMENT OF THE ARMY



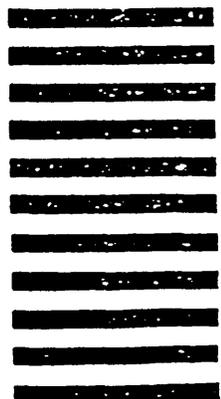
NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE \$300

**BUSINESS REPLY MAIL**  
FIRST CLASS PERMIT NO. 12062 WASHINGTON D. C.

POSTAGE WILL BE PAID BY THE DEPARTMENT OF THE ARMY

USAMC Materiel Readiness Support Activity  
ATTN: AMXMD-MP  
Lexington, KY 40511-5101



## STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions - Reverse Side)

1. DOCUMENT NUMBER MIL-M-63033A(TM)		2. DOCUMENT TITLE Manuals, Technical: Demilitarization of Surplus Military Items	
3a. NAME OF SUBMITTING ORGANIZATION		4. TYPE OF ORGANIZATION (Mark one)	
b. ADDRESS (Street, City, State, ZIP Code)		<input type="checkbox"/> VENDOR	
		<input type="checkbox"/> USER	
		<input type="checkbox"/> MANUFACTURER	
		<input type="checkbox"/> OTHER (Specify): _____	
5. PROBLEM AREAS			
a. Paragraph Number and Wording:			
b. Recommended Wording:			
c. Reason/Rationale for Recommendation:			
6. REMARKS			
7a. NAME OF SUBMITTER (Last, First, MI) - Optional		b. WORK TELEPHONE NUMBER (Include Area Code) - Optional	
c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional		8. DATE OF SUBMISSION (YYMMDD)	